

SECTION 24

NAMEPLATES, NOTICES AND MARKINGS

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24.1 REFERENCES

- (24A) UNITED STATES PUBLIC HEALTH SERVICE (USPHS), *Handbook on Sanitation of Vessel Construction*
- (24B) CENTER FOR DISEASE CONTROL (CDC) - *Recommended Shipbuilding Construction Guidelines for Cruise Vessels To Call on U.S. Ports*
- (24C) AMERICANS WITH DISABILITIES ACT (ADA), *ADA Accessibility Guidelines for Buildings and Facilities (ADAAG)*, as amended through September 2002
- (24D) Recommendations for Accessibility Guidelines for Passenger Vessels, Final Report, Passenger Vessel Access Advisory Committee, USATBC, December 2000
- (24E) ASTM F906, *Standard Specification for Letters and Numerals for Ships*
- (24F) ASTM F1166, *Standard Practice for Human Engineering Design for Marine Systems, Equipment and Facilities*
- (24G) ASTM F992, *Standard Specification for Valve Label Plates*

24.2 INTRODUCTION

This Section contains the Contractor Design and Provide general requirements for nameplates, notices and markings throughout the Vessel.

For WSF Fleet-wide Standardization purposes, End No. 1 of the Vessel shall always be considered the bow, and this designation shall delineate port and starboard, fore and aft wherever they are addressed in the Technical Specification.

24.3 GENERAL

The Contractor shall provide all applicable nameplates, signs, labels, notices, and other similar markings and devices throughout the Vessel as required by this Section of the Technical Specification, USCG, and all other cognizant Authoritative Agencies whether local, State, or Federal.

Unless otherwise specified or required by rule, regulation, or law, nameplates, signs, labels, notices, and other similar markings and devices shall be engraved phenolic plastic laminate, brass, or stainless steel.

Unless otherwise specified herein, plastic nameplates, signs, labels and notices and other similar markings shall be machine engraved $\frac{1}{32}$ -inch deep on "WSF GREEN" phenolic having a "WHITE" center and shall be no less than $\frac{3}{16}$ -inch in height. Metal engraved nameplates, signs, labels, notices, and other similar markings and devices shall be on material no less than (\geq) 0.05-inch thick and the engraving shall be 0.02-inch deep filled with "BLACK" enamel.

NOTICE: WSF currently installs a standard signage format on it's Vessels for naming, way finding, regulatory, mandatory, ADA, informative, and WSF signage. This Standard format is demonstrated for a JUMBO Class Ferry in WSF Drawing. No. 8102X-432-24-1, Rev C. This format shall be followed wherever applicable, to suit the standard format methodology as to material, size, format, attachment method, and color.

Wording shall be clear and concise **with a minimum of abbreviations**. Particular attention shall be given to the wording intended for use by the general public to ensure that the message is clear and unambiguous. Abbreviations, where used, shall be common to WSF and the marine transportation industry (in that order of precedence), and as set forth in MIL-STD-12E, or equal.

The criteria for use of abbreviations shall be as set forth in this Section of the Technical Specification and Section 28 of Reference (24F). Abbreviating of a word or group shall be used **only** if one of two (2) conditions exist:

1. There is insufficient space available at the location where the label is to be affixed for the design of a label that would allow the entire inscription to be spelled out.
2. The abbreviation is more commonly known and understood by the user population than the spelled out word or word group.

NOTE: Proposed wording for all nameplates, signs, labels, notices, and other similar markings and devices shall be submitted to the WSF Representative for approval **prior** to engraving, printing, or laminating. Nameplates, signs, labels, notices, and other similar markings and devices produced before obtaining WSF approval shall be at the Contractors risk, and shall be replaced, if unacceptable to WSF, at the Contractor's sole expense.

All nameplates, signs, labels, notices, and other similar markings and devices shall be firmly attached using 3M Company VHB 4951 Double Coated Acrylic Foam Tape as the preferable method or waterproof and oil proof adhesives. Special consideration shall be given to the prevention of theft and vandalism of those signs, labels, and notices normally accessible to Passengers.

Unless otherwise specified herein, where deck levels are included in component, equipment, space, and other labels, and on instruction plates, nameplates, markers and markings for use by the Vessel's crew, and in Display Drawings, a deck number shall be used to designate level as follows: Deck #1 = Hold/Engine Room Level; Deck #2 = Lower Vehicle Deck; Deck #3 = Upper Vehicle Deck; Deck #4 = Passenger Deck; Deck #5 = Sun Deck; and Deck #6 = Navigation Bridge Deck. Where this number system is used in a drawing or publication, the numbering system shall be **clearly** defined in a Legend on the drawing or publication. Informational signs intended for use by Passengers shall carry the noun name designations.

24.4 VESSEL'S NAME AND HAILING PORT

Provide the Vessel's name and hailing port (Seattle, WA) at each End of the Vessel on the outboard side of the Lower Vehicle Deck bulwarks, port and starboard. All letters shall be of raised ¼-inch thick steel plate, seal welded and ground smooth to the steel. Name letters shall be twelve (12) inches high and hailing port letters shall be six (6) inches high. All lettering shall be in accordance with **Fig. 2, Type 2 - Block Letters And Numerals** of Reference (24E).

After all other required painting and preservation has been accomplished in the vicinity, as set forth in Section 14 of the Technical Specification, paint the Vessel's name and hailing port in INTERNATIONAL Intercare 755, "WHITE" (not "BLUE WHITE"), to cover.

24.5 VESSEL'S NAME BOARDS

Fabricate and install name boards for each side and the front of each Pilothouse after all exterior superstructure painting has been completed. The name boards shall be of one (1) solid piece of Honduras mahogany, approximately two (2) inches thick. The letters shall be routed out using block type letters. The letters and name boards shall be painted in accordance with Section 14 of the Technical Specification. All lettering shall be in accordance with **Fig. 2, Type 2 - Block Letters And Numerals** of Reference (24E).

- 1 The name boards shall be securely bolted, using Type 316 stainless steel fasteners, to clips
2 welded to the Vessel's structure with sufficient standoff from the Pilothouse plating to permit
3 maintenance of the painted surface behind the boards without having to remove them.

4 **24.6 BUILDER'S NAMEPLATE**

- 5 Provide a builder's nameplate. The nameplate shall be of cast bronze with raised letters and
6 shall give the Vessel's name, year of building, names of selected State Officials(to be
7 provided by the WSF Representative), the builder, builder's hull number, and the architect.
8 The layout of the Builder's Nameplate shall be submitted to the WSF Representative for
9 timely approval prior to manufacture.

- 10 Attachment bolting shall be capped with anti-theft rosettes of like material as the nameplate.

- 11 The nameplate shall have a smooth bright finish and be finish coated with two (2) coats of
12 NYALIC Marine Ultra-Clear, or equal, and installed in a location to be designated by the
13 WSF Representative.

14 **24.7 SPONSOR'S PLAQUE**

- 15 A cast bronze plaque commemorating the launching of the Vessel shall be furnished and
16 mounted as directed by the WSF Representative. The plaque shall give the date, name of
17 sponsor, and other information to be supplied by WSF. The layout of the Sponsor's Plaque
18 shall be submitted to the WSF Representative for timely approval prior to manufacture.

- 19 Attachment bolting shall be capped with anti-theft rosettes of like material as the nameplate.

- 20 The plaque shall have a smooth bright finish and be finish coated with two (2) coats of
21 NYALIC Marine Ultra-Clear, or equal, and install in a location to be designated by the WSF
22 Representative.

23 **24.8 NOTICE FRAMES**

- 24 Metal frames with glazed permanent or hinged fronts shall be provided and installed for all
25 certificates, licenses, (except USCG licenses for Deck and Engineering Officers) and notices
26 provided and/or required by the Authoritative Agencies. The glazed front frames shall be
27 finished to suit mounting location and suitably sized for the documents and/or notices to be
28 displayed. The glass shall be a minimum 1/8 inch thick.

For deck and engineering officers, provide thirty (30) clear, glossy-finished, red oak license frames complete with glass and backing boards. Overall frame size shall be 11" × 9¾" × ½", using ¾" × ½" oak strips. Dado cut back of frame to a depth sufficient to capture the combined thickness of the ⅛-inch thick glass, the license, and the backing board. Provide swivel tabs to secure backing board.

Frames (except for U.S. Coast Guard licenses for Deck and Engineering Officers) are to be provided for the following. Location shall be as directed by the WSF Representative and suitably sized for the following:

1. Certificate of Sanitary Construction
2. Pilot rules (each Pilothouse)
3. Safety First notices
4. Compass deviation cards
5. Instructions for life preservers
6. Stability Letter (Original mounted, framed copy turned over to Staff Chief Engineer)
7. Rudder orders
8. USCG Certificate of Inspection (COI)
9. Tonnage Certificates
10. Radio operator licenses ((8 each), 5 inch × 8 inch, mounted in Pilothouse No. 1)
11. FCC radio station license (8 inch × 10 inch)
12. FCC Form 627
13. Maneuvering Certificate (one in each Pilothouse)
14. Passenger Ship Safety Certificate

15. CG 809 Masters Report Placard

16. Water Pollution Placard

17. Capacity Plan

18. Other notices as may be required by the USCG and other Authoritative Agencies

Provide two (2) clear, glossy-finished red oak construction, lockable, glass front license racks with all corners rounded and all brass trim. Each license rack shall provide secure space to display eight (8) red oak license frames of the type and size described earlier in this Section. Provide four (4) keys for each license rack to the WSF Representative prior to delivery of each Vessel. Where licenses (other than USCG licenses for Deck and Engineering Officers) or notices all of a similar type are to be displayed, a single large glass fronted display case shall be provided with sufficient display area to accommodate all licenses or notices of the type intended for display in that case. Licenses and notices shall be mounted inside the display in a fashion so that the licenses and notices **shall not need to be perforated** by pins, tacks, and the like. The front of any such cases shall be hinged or sliding, allowing access to change notices, and shall lock with a key.

Locations for the display of licenses and notices shall be approved by the WSF Representative.

Prior to Vessel delivery, WSF will provide the Contractor with twenty-four (24) Muster Lists (see the *Muster List* Subsection in this Section of the Technical Specification). The Contractor shall frame these and locate them as directed by the WSF Representative.

24.9 DISPLAY OF PLANS

Provide plans and diagrams mounted, stored or displayed as specified in this Subsection and Section 100 of the Technical Specification, and as required by the U.S. Coast Guard.

24.9.1 Engineering Crew Display Drawing Board

The Contractor shall provide a multi-leaf (minimum 10-leaf, suitable to mount a plan on both sides of each leaf) plan display drawing board assembly mounted on the Workshop bulkhead just Stbd of the door to the EOS, or other location as approved by the WSF Representative. The mounting on the bulkhead, shall be accomplished by bolting the board to four (4) stainless steel, 3 inch long stand-offs welded to the bulkhead.

The display assembly shall be constructed of Type 316L, stainless steel with a #4 finish. The base plate shall be constructed of 10 SSG (0.135 inch) sheet with six (6) 14 SSG (0.075 inch) sheet hinged leaves. Hinges for the leaves shall be installed on the left side of the assembly. The leaves shall be sized to accept "D" size (22"×34") drawing sheets and allow for a two (2) inch wide border around the mounted display drawing. The base plate shall be sized to allow mounting of the leaves along with their associated hinges and spring latches.

All display assembly hardware, to include hinges, fasteners and spring latches to secure leaves in the closed position, shall be stainless steel. Corners of the base plate and leaves shall be radiused one (1) inch and all edges shall be broken and/or de-burred.

Attention shall be paid to the assembly's cosmetic appearance. The display drawing board assembly shall not be painted, but shall be prepared to the required #4 finish.

The Contractor shall provide and submit a detailed sketch of the display board assembly to the WSF Representative for approval prior to fabrication.

See the *DISPLAY DRAWINGS FOR MOUNTING ON BOARD* Subsection in Section 100 of the Technical Specification.

24.10 TANK SOUNDING BOARDS

A tank sounding board, suitably sized, marked and lined as approved by the WSF Representative, shall be provided at a location approved by the WSF Representative.. See Section 78 of the Technical Specification.

24.11 OILER'S WATCH STANDING BOARD

An Oiler's Watch Standing Board, suitably sized, marked and lined as approved by the WSF Representative, shall be provided at a location approved by the WSF Representative.

24.12 OFFICIAL NUMBER

The Vessel's "Official Number" shall be marked by welded outline on its main beam in accordance with 46CFR 67.121 as directed by the WSF Representative. All lettering shall be in accordance with **Fig. 2, Type 2 - Block Letters And Numerals** of Reference (24E).

- 1 Paint the Official Number with one (1) coat of INTERNATIONAL Intercare 755,
2 “BLACK”, to cover.

3 **24.13 DRAFT MARKS**

- 4 Draft marks shall be permanently fixed using weld bead markings welded on the port and
5 starboard sides of each end of the Vessel. All draft marks shall be in vertical columns.
6 Forward and aft marks should be equidistant from midships, located in line with the center
7 line of the rudder stock, or, at the Contractor’s option, located on the center of the rudder
8 horns.

- 9 Draft numerals shall be in accordance with **Fig. 2, Type 2 - Block Letters And Numerals** of
10 Reference (24E), six (6) inches projected height, the bottom of each figure being the height
11 in even feet above the bottom of the keel or line of keel extended. The range of numerals
12 shall be such as to encompass the extremes in operating drafts. Draft figures shall be painted
13 in accordance with Section 14 of the Technical Specification.

14 **24.14 SHELL PLATE, RUDDER AND FUNNEL MARKINGS**

- 15 Paint lines shall be marked off on the hull and funnel at intervals of three (3) feet with
16 $\frac{1}{8}$ -inch weld beads two (2) inches long for guidance in repainting. Hull paint line weld
17 marks shall be at a waterline six (6) inches above the Vessel’s Design Load Waterline as
18 approved by the WSF Representative.). Funnel paint line weld marks shall be located in
19 accordance with Section 14 of the Technical Specification.

- 20 Location of all main athwartship bulkheads shall be indicated by Frame numbers on the
21 outside of the shell plating at the full load line by small bead markings in Arabic, six (6)
22 inches high, for use in dry-docking.

- 23 Provide “**No. 1 END**” and “**No. 2 END**” weld beads on its respective rudder. Weld bead
24 markings shall be **Fig. 2, Type 2 - Block Letters And Numerals** of Reference (24E), six (6)
25 inches projected height.

- 26 **NOTE:** The above mentioned rudder markings shall be welded at manufacture so as not
27 to disturb the rudder assembly interior coating system.

24.15 COMPARTMENT AND SPACE LABELS

24.15.1 Doors

Provide an identifying label or nameplate showing the compartment designation of each door accessible space in the Vessel. The label shall be affixed to the outside of each access door.

The label shall be installed approximately sixty-three (63) inches above the deck in the center of the door.

Where it is impracticable to affix the label to the door, it may be affixed to the bulkhead on the latch set side of the door and in a location that will clearly identify the designated compartment.

The labels shall have "WHITE" letters on a "BLACK" background for the Officer and Crew Staterooms and shall have contrasting colors on a background compatible with interior decor in Passenger spaces.

Identifying label or nameplates shall be at least one (1) inch high with 1/2-inch high lettering. For the eight (8) exterior, double doors leading from the Passenger Deck Lounges to the embarkation (Picklefork) areas, provide a warning label next to the deadbolt at top, both sides, stating the following:

**IN ACCORDANCE WITH USCG REGULATIONS
- DO NOT LOCK WHILE IN SERVICE.**

24.15.2 Hatches, Manholes, and Scuttles

Provide an identifying label or nameplate on the outside of each watertight hatch, manhole cover, and scuttle in the Vessel showing the compartment designation of the space to which access is made.

Identifying label or nameplates shall be at least one (1) inch wide with engraved 1/2-inch high, paint filled, lettering.

Vehicle Deck watertight hatch, manhole cover, and scuttle labels shall be made of Type 316L stainless steel material and continuously welded in place.

24.16 SERVICE SYSTEM LABELS AND NAMEPLATES

Provide system and component identifying labels or nameplates throughout the Vessel as outlined below.

Lettering shall be not less than $\frac{3}{16}$ -inch in height.

Primary information shall be in letters of larger size than secondary information.

For all machinery and equipment not otherwise labeled by the manufacturer, provide a label plate listing the function of the component and other pertinent data as directed.

For all instruments, provide a label that indicates the purpose of the instrument.

24.16.1 Heating and Ventilation Systems

Provide labels or nameplates that clearly identify each fan, controller, heater, motor, access plate, thermostat, fire damper, balancing damper, weather supply, exhaust outlet, and other major components of the heating and ventilation systems throughout the Vessel.

Labels or nameplates shall be clearly visible without the necessity of opening covers, removing sheathing, ceiling or bulkhead panels. Where equipment or components are located above ceiling or behind bulkhead panels, additional labels shall be attached to the panel, or the nearest adjacent vertical surface, in clear view, and as near the identified component as possible.

Labels for automatic and manual fire dampers shall be identified by red day light-reflecting letters (retro reflecting letters) at least $\frac{1}{2}$ -inch high and meet the requirements of 46CFR §78.47-53.

Dampers and closures shall be similarly marked and labeled to show the "OPEN" and "CLOSED" positions and to show the compartment or system affected.

Exposed ducting shall be marked with the system number preceded by the word "EXHAUST", "SUPPLY", or "RETURN" as applicable. Lettering shall be "BLACK" EZ Duct Markers™, or equal, vinyl signage ("WHITE" vinyl if the color of the duct is so dark that "BLACK" would be illegible). Lettering shall be a minimum of $1\frac{1}{2}$ -inches high. Exposed ductwork shall include arrows to indicate the normal direction of flow.

Labeling colors shall be approved by the WSF Representative to match Fleet-wide standards.

24.16.2 Piping Systems

Operating systems, associated components and/or equipment, piping and appurtenances shall be readily identifiable.

Except where the function of a valve or component is obvious (such as a freshwater cutout valve immediately adjacent to a lavatory fixture), each valve throughout the Vessel shall be identified as to its service and function. Marking shall be by engraving an attached label plate to the valve hand-wheel or adjacent structure. Valve name tags or label plates shall be brass or stainless steel. The tag or label shall be a circular disk attached to the valve wheel and held in place by the valve wheel nut, or be a rectangular tag attached to the valve body by a short #16 brass single jack chain, or 0.032-inch diameter flexible stainless steel safety lock wire, as appropriate to the type of valve. Reference (24G) shall be used as a guide for dimension, shape, and lettering of valve tags. Remotely operated valves shall be marked at the valve and at the remote operator. Valves located beneath grating or floor plates shall be labeled, and a duplicate label plate shall be secured to nearby structure above floor plates or on the access section.

Sounding tubes leading to the Lower Vehicle Deck and terminating in a deck box shall be provided with labeling as set forth in the *Sounding Tubes* Subsection in Section 11 of the Technical Specification. All other sounding tubes shall be provided with two (2) label plates, one (1) bronze label on its self-closing gate valve, and one (1) engraved stainless steel label plate attached to the bulkhead or adjacent structure, of a style and manufacturer the same as set forth in the *Hatches, Manholes, and Scuttles* Subsection in this Section of the Technical Specification.

Exposed piping shall be labeled EZ Pipe Markers™, System #1, or equal, vinyl signage to indicate the medium contained in the system and the normal direction of flow. Each pipe shall be marked at least once between takedown joints, on each side of bulkhead penetrations, and in no case less than once in each compartment through which the pipe passes or is contained. Systems serving the propulsion plant shall be marked more liberally than other systems. At the interconnection of systems, each shall be marked nearby if practicable.

The vinyl letters, numerals, and direction arrows shall be proportional to the diameter of the pipe. The color of the lettering and arrows shall provide a sharp contrast to the background. Labeling colors shall be approved by the WSF Representative to match Fleet-wide standards.

1 Lettering and arrows shall be applied so as to be readily visible from adjacent decks,
2 floorplates, or walkways.

3 Potable water piping and fill stations shall be identified and marked in accordance with
4 this Section of the Technical Specification and References (24A), Section A.15 and
5 Reference (24B).

6 In cases of valves with remote operators, both the valve and the remote operator shall
7 have a label. In cases where the valve and/or operator are behind a door, overhead, or the
8 like, a matching label shall be provided for that cover and installed to identify where the
9 hidden valve is located.

10 Marking is required in voids, bilges, or similar unmanned spaces. In cases where the run
11 is identified by a nearby valve or piece of equipment where the function is obvious
12 marking is not required.

13 **24.16.3 Electrical Systems**

14 Provide an identifying nameplate or label for each piece of electrical equipment,
15 including junction and/or connection boxes, and for each electrical cable or wire installed
16 in the Vessel. Any special operating instructions or precautions that may be required by
17 the system or equipment shall be included on the label plate or on a separate plate
18 mounted adjacent to the equipment. Special operating instruction or precaution plates
19 shall be worded, or otherwise identified, in a manner that will clearly associate the
20 instructions with the equipment or system to which they are affixed.

21 Where any electrical equipment, including junction and/or connection boxes, is located
22 above ceiling or behind bulkhead panels, an additional identification label shall be
23 provided. The label shall be attached to the panel, or the nearest adjacent vertical
24 surface, in clear view, and as near the identified component as possible.

25 The labels shall identify the equipment or component by name and its power source(s) by
26 circuit number.

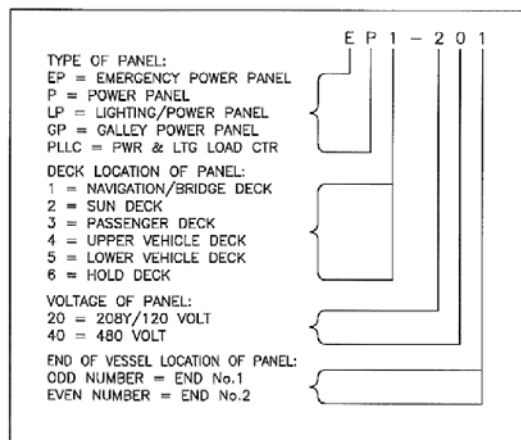
27 Electrical cables shall be clearly identified as specified in Section 87 of the Technical
28 Specification. See marking requirements in the *MATERIAL & EQUIPMENT* Subsection in
29 Section 87 of the Technical Specification.

30 Any device or enclosure with two (2) or more sources of power shall be provided with
31 "SIGNAL YELLOW" with "BLACK" lettering phenolic label:

**WARNING - MORE THAN ONE SOURCE OF POWER
ENSURE ALL POWER OFF BEFORE OPENING**

The circuit numbers and voltages of **ALL** the power sources shall be clearly indicated on the label plate. The label plates shall have a "RED" background with "WHITE" lettering.

All Contractor-provided electrical panels shall be labeled using the identifying label system as described in **FIGURE 24-1** below:



**FIGURE 24-1
Electrical Panel Labeling Methodology**

Feeder circuit breakers in the Ship's Service and Emergency Switchboards shall be odd-numbered if they power equipment on End No. 1 and even-numbered if they power equipment on End No.2.

Motor Control Centers (MCC's) shall be odd-numbered if they are located on End No. 1 and even-numbered if they are located on End No. 2. MCC numbers increase from the Sun Deck to the Hold Deck, (i.e. MCC 2 is in Fan Room No. 2 on End No. 2 of the Sun Deck while MCC 5 is in Reduction Gear Room No. 1 on End No. 1 of the Hold Deck.

There can be more than one (1) panel that contains the number 201. (For example: there can be panels named EP1-201, LP1-201, LP6-201, and so on).

Electrical distribution panels shall have nameplates showing:

1. Panel number or designation.
2. Space, apparatus, or circuits controlled.
3. Type of service (power, lighting, etc.).
4. Circuit designation shown on wiring diagrams.
5. Feeder designation.
6. A label plate on the outside of each panel door delineating all circuits within the panel in their order and position.
7. Each circuit breaker contained in the panel shall have a label plate showing the circuit designation and number, the circuit breaker trip setting and the breaker frame size.

The alarms listed below shall be marked as shown in at least (\geq) 1/2-inch high "WHITE" letters in a "RED" background in visible locations:

1. The general alarm bell contact maker in each Pilothouse, Emergency Generator Room, and in the Engineer's Operating Station – mark: **"GENERAL ALARM"**.
2. All general alarm bells – mark: **"GENERAL ALARM - WHEN BELL RINGS GO TO YOUR STATION"**.
3. The carbon dioxide siren – mark: **"WHEN ALARM SOUNDS – VACATE AT ONCE. CARBON DIOXIDE BEING RELEASED"**.
4. The Hi-Fog[®] sirens – mark: **"WHEN ALARM SOUNDS – VACATE AT ONCE. HI-FOG[®] FIRE SUPPRESSION MIST BEING RELEASED"**.

All emergency lights shall be marked with a "WHITE" letter "E" at least 1/2-inch high in a "RED" background. Label shall also provide circuit number and wattage of the lamps.

All normal lights shall have a label plate (for fluorescent lights attached to the ballast cover inside the light assembly; for incandescent lights attached next to the light assembly) with "BLACK" lettering at least 3/16 inch high in a "WHITE" background giving the circuit number and wattage of the lamps.

24.16.4 Antenna Identification Nameplates

For each antenna installed, provide a Type 316 stainless steel engraved identifying nameplate. Each nameplate shall be at least one (1) inch wide with engraved 1/2-inch high lettering, length to suit. The material shall be no less than 0.05 inch thick and engraving shall be 0.02 inch deep, filled with "BLACK" enamel paint. Nameplate shall be inscribed with the nomenclature of the antenna. Nameplates shall be tack welded in place in close proximity to it's associated antenna.

Provide a stainless steel nameplate as shown below, manufactured same as described above for antennas, except for "RED" paint filled letters instead of "Black" letters. Provide one (1) nameplate at each ladder leading to a housetop where antennas are located. Nameplate lettering sizes shall be 3/4"-high for "WARNING", 1/2"-high for "Radiation...", and 1/4"-high for "Secure all..." on a 6" x 10" sized plate.

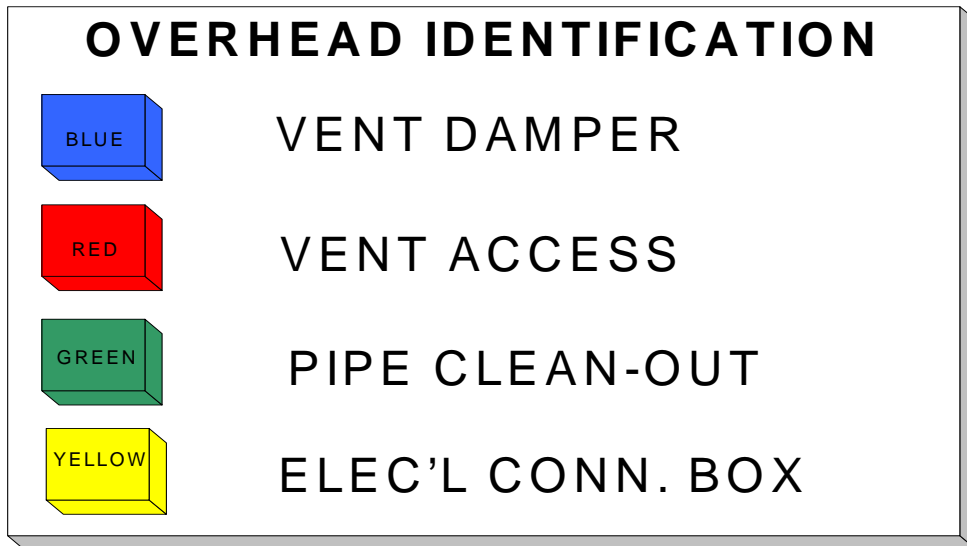


24.17 OVERHEAD CEILING SYSTEM COMPONENT IDENTIFICATION CODE

To facilitate ready location of mechanical and electrical components requiring periodic maintenance/repair, provide a color coded 3/4-inch square phenolic tag to the overhead ceiling panel at the location of all vent dampers, vent access, pipe cleanout, and electrical connection box. This requirement is over and above the requirements for duplicate labels for valves and the like behind access doors in the overhead ceiling system.

Provide an overhead identification placard (size approximately 5" x 8") on the bulkhead in the Pursers Office, Ship's Office, Master's Office, and Chief Engineer's Office. In addition, provide four (4) additional plates to the WSF Representative for other locations.

- 1 The identification placard shall be engraved "BLACK" letters on a "WHITE" phenolic
 2 plate with the color coded phenolic squares attached generally as demonstrated below.



3 **24.17.1 Special Markings**

- 4 Provide all special nameplates, signs, labels, notices, and other similar markings and
 5 devices such as exit signs, security, pollution abatement, rudder orders, no smoking
 6 signs, aids to mobility impaired persons, and embarkation directions as are required to
 7 comply with the rules, regulations, or laws of cognizant Authoritative Agencies whether
 8 local, State, or Federal.

9 **24.17.2 Lifesaving and Survival Equipment**

- 10 Provide nameplates, signs, labels, notices, and other similar markings and devices as
 11 appropriate to identify and provide instructions concerning the use and operation of
 12 emergency squad lockers, High Slide Marine Evacuation Systems (MES), Link life rafts,
 13 buoyant apparatus, and other safety equipment as required to comply with requirements
 14 of the USCG. Provide life preserver donning instructions at the Passenger Assembly
 15 Areas, under bench seats, inside locker doors and any other life preserver stowage area.

24.17.3 Fire Suppression Equipment

The various firefighting systems shall be conspicuously marked in red letters, at least two (2) inches high, **"HI-FOG® FIRE SUPPRESSION MIST SYSTEM", "HI-FOG® FIRE SUPPRESSION SPOT MIST SYSTEM" "CARBON DIOXIDE FIRE APPARATUS", MANUAL SPRINKLING SYSTEM"**, as applicable.

Each fire hydrant shall be marked in "RED" letters in a "WHITE" background, at least two (2) inches high, **"FIRE STATION No. 1", "FIRE STATION No. 2", "FIRE STATION No. 3"**, etc.

Each hand portable fire extinguisher station shall be marked with a station number and extinguisher size and type with one (1) inch high letters as on WSF Jumbo Mark II Vessels.

Fire axes, life buoys, life jackets, life boats, and any other items required by Authoritative Agencies to bear the Vessel's name and home port (if applicable) shall be stenciled accordingly.

Provide other nameplates, signs, labels, notices, and other similar markings and devices for all fire stations, foam stations, fire hoses, fire axes, portable extinguishers, carbon dioxide alarms and flooding systems, fire sprinkling control stations, sprinkler zone boundaries, general alarms and other similar emergency or life-saving equipment systems as required to comply with the requirements of the USCG.

24.17.4 Fire Screen Doors

Provide nameplates, signs, labels, notices, and other similar markings and devices for all fire screen doors throughout the Vessel as required to comply with the requirements of the USCG.

24.17.5 Muster List

Prior to Vessel delivery, WSF will furnish the Contractor, as Owner Furnished Equipment (OFE), twenty-four (24) "hard" plastic laminated Muster Lists (Station Bills).

The WSF provided Station Bills shall be framed by the Contractor, as set forth on the *NOTICE FRAMES* Subsection in this Technical Specification, and installed throughout the Vessel as directed by the WSF Representative (Construction Master). Eleven (11) of the Muster Lists will be turned over to the WSF Representative as spares.

24.18 U.S. PUBLIC HEALTH SERVICE (USPHS) NOTICES AND MARKINGS

Provide the following nameplates, signs, labels, and notices, together with any other markings or devices, which are required to comply with the requirements of the USPHS:

1. **POTABLE WATER HOSE ONLY** - on each hose and at each hose stowage.
2. **POTABLE WATER FILLING** - at each station.
3. Potable water piping, valve and fixture markings as required by References (24A), Section A.15 and Reference (24B).
4. **SEWAGE DISCHARGE ONLY** – adjacent to deck connection discharge valves.

24.19 DIRECTIONAL AND INFORMATION SIGNS

Provide directional signs and markings on the Upper Vehicle, Lower Vehicle, Passenger, and Sun Decks as described below. See Section 14 of the Technical Specification for paint requirements.

1. Illuminated **EXIT** signs over all doors leading to the exterior on the Passenger Deck and Sun Deck.
2. Illuminated **EXIT** signs over the doorways at the top of all stairway/ companionways leading from the Sun Deck down to the Passenger Deck and from the Passenger Deck down to the Upper and Lower Vehicle Decks.
3. **WOMEN'S, MEN'S, UNISEX, AND CHILD CARE RESTROOMS** signs, with directional arrows, in sufficient quantity to direct the public to the Women's, Men's, Unisex, and Child Care Restrooms on the Passenger and Sun Deck seating areas. Provide International Symbols (pictographs) as applicable. The WSF Representative shall approve final placement of the signs.
4. **PASSENGER ELEVATORS** signs, with directional arrows at each End of the Vessel in sufficient quantity on the Lower Vehicle, Upper Vehicle, Passenger Deck, and Sun Deck to direct the public to the elevators. WSF will entertain the use of premium (7 year minimum) self-adhesive vinyl lettering for this application on the vehicle decks, upon approval of the WSF Representative.
5. **TO VEHICLE DECK - No. 1 END** or **No. 2 END** signs, as appropriate, with a directional arrow underneath the lettering, mounted at the deckhead at each stairway/companionway entrance on the Sun Deck and on the Passenger Deck.

- 1 6. **TO PASSENGER DECK** signs on the Upper and Lower Vehicle Decks and on the
2 Sun Deck with a directional arrow underneath the lettering. The signs shall be
3 painted on both sides of the Machinery Casings at the foot of each
4 stairway/companionway leading up to the Passenger Deck or both sides of the
5 bulkhead at the head of each stairway/companionway leading down to the Passenger
6 Deck, approximately eight (8) feet above the deck with 3-inch high "BLACK" letters
7 on a "WHITE" background bordered in "BLACK". WSF will entertain the use of
8 premium (seven (7) year minimum) self-adhesive vinyl lettering for this application
9 on the vehicle decks, upon approval of the WSF Representative.
- 10 7. **TO SUN DECK** signs on the Passenger Deck, with a directional arrow underneath
11 the lettering. The signs shall be engraved phenolic plastic and located on both sides
12 of the stairwells leading up to the Sun Deck, approximately six (6) feet above the
13 deck. Provide 3-inch high "BLACK" letters on a "WHITE" background bordered in
14 "BLACK".
- 15 8. **No. 1 END** and **No. 2 END** signs with directional arrows underneath the lettering on
16 the Upper and Lower Vehicle Decks centered on Frame "0". The signs shall be
17 painted on the haunch girder stanchions (inboard side) port and starboard, No. 1 &
18 No. 2 Ends, located approximately six (6) feet above the deck with 4-inch high
19 "BLACK" letters on a "WHITE" background. In addition, add the same signage to
20 the deep web Frames opposite the haunch girder stanchions, center line, No. 1 &
21 No. 2 End, facing the Vessel Ends. WSF will entertain the use of premium (7 year
22 minimum) self-adhesive vinyl lettering for this application on the vehicle decks, upon
23 approval of the WSF Representative.
- 24 9. **NO SMOKING** engraved phenolic plastic signs shall be located on the four (4)
25 Passenger Deck Picklefork areas and the Upper and Lower Vehicle Decks at every
26 3rd Frame (Web Frame) on the inboard side of the Curtain Plate framing (aligned
27 vertically), and at approximately Frame 10 and Frame 35, port and starboard on both
28 sides of the Machinery Casing. The signs shall be located approximately eight (8)
29 feet above the deck with 6-inch high "RED" letters against a "WHITE" background
30 bordered in "RED". In addition, add signs in the No. 1 and No. 2 End Passenger
31 Deck and Sun Deck Passenger Lounges. The vertical lettering shall have two (2)
32 inches high "RED" letters on a "WHITE" background. Passenger area marking
33 layout shall be similar to other WSF Vessels. WSF will entertain the use of premium
34 (seven (7) year minimum) self-adhesive vinyl lettering for this application on the
35 vehicle decks, upon approval of the WSF Representative.
- 36 10. **CAUTION: OPEN FLAMES OR SMOKING PROHIBITED** engraved
37 phenolic plastic placard signs with 3-inch high "RED" letters on a "WHITE"
38 background, on the port and starboard haunch girders (No. 1 & No. 2 Ends)
39 approximately sixty-six (66) inches above the deck. In addition, add the same sign at
40 the same height on the Curtain Plating at the base of each ramp leading to the Upper

Vehicle Deck and on the center line facing casing bulkheads between the Upper and Lower Vehicle Decks, No. 1 & No. 2 Ends (approximately Frame 60). WSF will entertain the use of premium (seven (7) year minimum) self-adhesive vinyl lettering for this application on the vehicle decks, upon approval of the WSF Representative.

11. **VERTICAL CLEARANCE** signs shall be painted at each end of the Vessel directly over each vehicle lane on the Upper and Lower Vehicle Decks, clearly visible to boarding vehicles and on both sides of the Web Frame signage, Item 8 above. Numerals shall be three (3) inches high, "BLACK" against a "WHITE" background over "BLACK" and "SIGNAL YELLOW" stripes. WSF will entertain the use of premium (seven (7) year minimum) self-adhesive vinyl lettering for this application on the vehicle decks, upon approval of the WSF Representative.

12. **WATCH STEP** signs in 3-inch high engraved phenolic plastic placard with "BLACK" letters on a "SIGNAL YELLOW" background at the foot of each stairway leading from the Passenger Deck and the Upper Vehicle Deck to the Lower Vehicle Deck. The signs should be visible while descending.

13. **WATCH FOR MOVING TRAFFIC** signs in 3-inch high engraved phenolic plastic placard with "BLACK" letters on a "SIGNAL YELLOW" background at all walkthrough areas in the Machinery Casings on the Lower Vehicle Deck (where the openings are less than forty-eight (48) inches). Signs must be readable prior to stepping into the traffic lanes.

14. **CAUTION: BEFORE RELEASING, ENSURE AREA IS CLEAR** engraved phenolic plastic placard signs in 1½-inch high "BLACK" letters on a "SIGNAL YELLOW" background. Provide in the vicinity of all Life Preserver Locker releases on the Lower Vehicle Deck.

15. High Slide Marine Evacuation Systems (MES) combined Assembly/Embarkation Station standard IMO signs, and directional signage required by the USCG.

16. Provide engraved plastic laminate signs to identify the following ship-to-shore service connections and stations. Lettering shall be 3-inches high.

The signs shall be mounted on the curtain plate or the machinery casing as appropriate and in such locations as to be easily read and associated with their respective connection:

a. Shore Connections for sewage pump out, potable water and flushing water fill, Firemain, and electrical service.

b. Fueling Station (both sides).

24.20 INSTRUCTION PLATES

Provide Plastic Laminate Plates (PLP) or Engraved Phenolic Plastic (EPP) plates for operating instructions and emergency procedures as required to safely navigate and operate the Vessel, and to comply with the rules, regulations, and laws of all cognizant agencies whether local, State, or Federal, including but not limited to the following:

24.20.1 Each Pilothouse

1. End Number - EPP.
2. Rudder Direction, **LEFT** and **RIGHT** - EPP.
3. Emergency Signal Pilothouse to EOS.

24.20.2 EOS Console

1. End numbers - EPP.
2. Emergency Signal Pilothouse to EOS.

24.20.3 Sprinkling System Manifold

1. Sprinkling System setup and operating procedure - EPP.
2. Sprinkling System Zone Diagram - EPP.
 - i. One (1) at sprinkler manifold
 - ii. One (1) in each Pilothouse
 - iii. One (1) at each End of the Lower Vehicle Deck as directed by the WSF Representative

24.20.4 Lower Vehicle Deck Emergency Stations

1. Sliding Watertight Door operating instructions - EPP.
2. Fuel Oil Transfer Pump shutdown - EPP.
3. HI-FOG[®] Fire Suppression Mist System procedures - EPP.
4. Rescue Boat Davit operating instructions - EPP.

5. Rescue Boat Davit slew “IN/OUT” directions and handwheel arrows - EPP.
6. Oil-fired hot water heater shutdown - EPP.
7. Fuel Oil Day Tank supply valves operation (direction - open/close) - EPP.

24.20.5 Independent HI-FOG® Fire Suppression Mist Systems

1. Main Engine Rooms (at activation stations) - EPP.
2. Main Engine Rooms Local Application (at activation stations) - EPP.
3. Crew Locker Room Stores (at Hi-Fog® Sprinkler Pump Unit) – EPP.
4. Emergency Generator Room - EPP.
5. Upper Vehicle Deck Paint Locker – EPP.

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24.20.6 Engine Room Semi-Portable CO₂ Systems

1. Main Engine Rooms.

Install in the vicinity of each Semi Portable System hose reel in a location where the instructions can be clearly seen by the operator. See the *Engine Room Semi-Portable Systems* Subsection in Section 13 of the Technical Specification.

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24.20.7 Steering Gear Rooms

1. Operating and Emergency procedures - PLP with frame.

24.20.8 Engine Rooms

1. Oil Pollution Prevention procedures - PLP with frame.

Install in the vicinity of each bilge suction manifold, single bilge suction valve, and each bilge overboard valve in a location where the instructions can be clearly seen by the valve operator.

2. Fuel Oil Purifier operating instructions- PLP with frame.

Install in the vicinity of the fuel oil purifier, in a location where the instructions can be clearly seen by the purifier operator.

3. Fueling Procedures with system diagram - PLP with frame.

1 Install in the vicinity of the fuel oil station and transfer manifold in a location where
2 the instructions can be clearly seen by the operator.

3 4. Department of Energy (DOE) fueling hand signals placard.

4 Install in the vicinity of the transfer manifold in a location where the instructions can
5 be clearly seen by the operator.

6 **24.20.9 Fueling Station**

7 1. Oil Pollution Prevention procedures - PLP with frame.

8 2. Fuel Oil Purifier operating instructions- PLP with frame.

9 Install in the vicinity of the fuel oil station in a location where the instructions can be
10 clearly seen by the operator.

11 3. Department of Energy (DOE) fueling hand signals placard.

12 Install in the vicinity of the fuel oil station in a location where the instructions can be
13 clearly seen by the operator.

14 **24.20.10 Passenger Elevators**

15 1. Telephone Operating Instructions: Provide instructions that clearly describe the
16 operation of the phone and emergency call system. The instruction plates shall be
17 presented in clear lettering and well-defined Braille. See Section 23 of the Technical
18 Specification.

19 **24.20.11 Passenger Elevators Machinery Rooms**

20 1. Emergency operating instructions: Provide instructions that describe the operation of
21 the elevators from the elevator machinery rooms - EPP. The instructions shall be
22 located where they can be clearly seen by the operator. See Section 23 of the
23 Technical Specification.

24 **24.20.12 Anchor Winch Space**

25 1. Provide instructions that describe the operation of the anchor windlass including
26 release, braking and retrieval - EPP. The instructions shall be located in the Anchor
27 Winch Space where they can be clearly seen by the operator.

24.20.13 MES Station

1. Provide instructions that describe the operation of the High Slide Marine Evacuation System (MES) release and operating - EPP. The instructions shall be located in each MES Station where they can be clearly seen by the operator.

24.21 MISCELLANEOUS LABELS, SIGNS, AND MARKERS**24.21.1 Restricted Areas**

Provide signs with 2-inch lettering reading:

RESTRICTED AREA

NO ADMITTANCE - CREW ONLY

Signs shall be located at stairways and doors leading from the Passenger areas to areas not normally accessible to the Passengers such as the Pilothouses, Engine Rooms, Crew Quarters, Crew Dayrooms, Crew Toilet Spaces, Reduction Gear Rooms, Tank Rooms,, Paint and Battery Lockers, Storerooms, and Cleaning Gear Lockers. Notice boards shall be used where restrictive chains are required.

24.21.2 No Pets and Sport Cleats Signs

Provide brass signs engraved with the name of the Vessel in 1½-inch high letters filled with "RED" enamel, and coated with NYALIC Marine Ultra-Clear reading:

**NO PETS ALLOWED IN
PASSENGER CABIN OR ELEVATORS**

**NO SPORT CLEATS ALLOWED IN
PASSENGER CABIN OR ELEVATORS**

Signs will be located at the landing of each stairway, elevator and companionway on the Upper and Lower Vehicle Decks, Sun Deck, and on the weather side of doorways leading to the Passenger accommodation spaces.

24.21.3 Nameplates

Provide brass plates engraved with the name of the Vessel in 2-inch high letters filled with "BLACK" enamel, and coated with NYALIC Marine Ultra-Clear, or equal, on each stairway/companionway door leading to the Passenger Deck from the Upper and Lower Vehicle Decks using tamper proof fasteners. Mount the plates on the Vehicle Deck side of the door centered just below the window. Provide one (1) additional plate for mounting on the EOS Control Console. Turn this additional plate over to the Staff Chief Engineer for mounting.

24.21.4 Magnetic Door Holdbacks

Provide "RELEASE" labels in not less than $\frac{3}{16}$ -inch high engraved "WHITE" letters on "RED" background, phenolic plastic, near each magnetic door switch. The label should be placed to show the direction the switch must be moved in order to release the doors.

24.22 ENGINE ROOM SIGNAL AND ANNUNCIATOR LIGHTS

Provide plastic laminate signs under each of the signal and annunciator type lights installed in each of the Engine Rooms identifying its function with lettering no less than three (3) inches in height. More than one (1) sign may be required for each light in order that it may be seen from all areas of the Engine Rooms.

24.23 USED OIL AND OILY BILGE WATER TANKS

Provide a plastic laminate placard with "BLACK" letters and borders on a "SIGNAL YELLOW" background for the Used Oil and Oily Bilge Water Tanks listing materials that can be placed in the tank. The placard shall include instructions to describe the type of waste that is and is not permitted for disposal into these tanks as set forth below:

PERMITTED	NOT PERMITTED
Miscellaneous used lubricating oils	Chlorinated solvents, electrical cleaners
Miscellaneous used fuel oils	Cleaning solvents, paint and lacquer thinners
Oily water	Cleaning chemicals
Fuel oil purifier waste (used oil tank only)	Cooling water cleaning chemicals
<p align="center">WHEN IN DOUBT, CHECK WITH THE CHIEF ENGINEER</p> <p align="center"><u>BEFORE</u> DUMPING</p>	

1 **24.24 VEHICLE SPACE AND SPACE MARKINGS**

2 Mark the Upper and Lower Vehicle Deck areas in way of Vehicle stowage with lane
3 boundaries, walkways, and aisles for foot traffic to stairtowers, and elevators, and generally
4 as designated Fleet-wide on other WSF Vessels. All lane boundaries, walkways, and aisles
5 striping shall be approved by the WSF Representative during the Phase II proposal part of
6 this Contract to meet the operational requirements of WSF for the Contractor's design.

7 Provide painted vehicle lanes/walkways/ ADA paths for both Vehicles and Passengers suit the
8 Contractor's design. Loading deck markers shall be provided consisting of 1½-inch long ×
9 ¼-inch high stainless steel weld bead numbers of 25', 50', and 75'. Locate the markers
10 starting at a frame, as approved by the WSF Representative, on each End just outboard of the
11 Vehicle lane marker adjacent to the Vessel Center Line, on the port side No. 1 End and the
12 starboard No. 2 End, as approved by the WSF Representative.

13 Highlight paint with "SIGNAL YELLOW" with diagonal "BLACK" four (4) inch stripes all
14 structural, piping, ventilation, and/or equipment obstructions to alert drivers to the hazard.

Highlight paint a "SIGNAL YELLOW" with diagonal "BLACK" stripe as set forth on WSF Drawing No. 8000-631-024-01, *FLEET WIDE – VEHICLE BARRIER LINE ARRANGEMENT AND DETAILS* at both Ends of the Vessel.

Provide a liberal number of large "RED" premium (seven (7) year minimum) self-adhesive vinyl lettering "NO SMOKING" signs, and large no smoking International Symbols (pictographs) as designated Fleet-wide on other WSF Fleet Vessels. WSF is currently testing a large no smoking International Symbol (pictograph) application on the M/V KLAHOWYA and may entertain the use of premium (seven (7) year minimum) self-adhesive vinyl pictographs for the pictograph application on the vehicle decks upon approval of the WSF Representative.

Provide "BLACK" premium (seven (7) year minimum) self-adhesive vinyl lettering 3-inch high frame designation numbers on the inboard flange face of all Steering Gear Rooms, Tank Rooms, Reduction Gear Rooms, and Engine Rooms main transverse frames, approximately 5 foot - 0 inches below the Lower Vehicle Deck level, port and starboard. Numbers shall be block type. The numbers shall reflect the "*below Vehicle Deck*" frame numbers.

Provide 3-inch high frame designation numbers on the inboard flange face of all Upper and Lower Vehicle Deck main transverse frames, 6 foot - 0 inches above the deck, port and starboard. Numbers shall be block type, "BLACK" premium (seven (7) year minimum) self-adhesive vinyl lettering. The numbers shall reflect the "*above Vehicle Deck*" frame numbers.

NOTE: Washington State Ferry M/V TILLIKUM has a Vehicle Deck marking system installation utilizing self-adhesive vinyl lettering, signs, and pictographs. This Vessel demonstrates a number of possible uses and methodology for the use of vinyl lettering, signs, and pictographs that could be requested for installation on Vessels under this Contract, as approved by the WSF Representative.

24.25 BRAILLE MARKINGS

Braille markings shall be provided at all Passenger elevator call stations, and other locations in accordance with the requirements of References (24C) and (24D).

24.26 SPARE PARTS AND INSTRUCTION MANUALS

Provide a list of recommended spare parts and special tools for those items which are Contractor furnished, together with parts lists and instruction manuals necessary to maintain

1 and service provided equipment and accessories in accordance with the requirements of
2 Sections 86 and 100 of the Technical Specification.

3 **24.27 TESTS, TRIALS AND INSPECTIONS**

4 Tests and/or Trials shall be in accordance with this Section and Section 101 of the Technical
5 Specification.

6 Inspections shall be performed as defined in this Section and in Sections 1 and 2 of the
7 Technical Specification.

8 **24.28 PHASE II TECHNICAL PROPOSAL REQUIREMENTS**

9 The deliverables required by Section 100 of the Technical Specification and the
10 Authoritative Agencies, shall be provided during the Phase II Technical Proposal stage of
11 Work in accordance with the requirements of Section 100 of the Technical Specification.

12 **24.29 PHASE III DETAIL DESIGN AND CONSTRUCTION REQUIREMENTS**

13 The deliverables required by Section 100 of the Technical Specification and the
14 Authoritative Agencies, shall be provided during the Phase III Detail Design stage of Work
15 in accordance with the requirements of Section 100 of the Technical Specification.

16 The *Notices, Nameplates and Markings Arrangement & Details* required by Section 100
17 shall include data, location, material, and color code.

(END OF SECTION)